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			I	CONTRIBUTE MICHAEL
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,129	02/06/2004	Kenneth R. Leach	MCO-10418/08 8378	
75	7590 12/05/2005		EXAMINER	
Douglas L. Wathen			SHAW, CLIFFORD C	
Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, P.C. 280 N. Old Woodward, Suite 400 Birmingham, MI 48009			ART UNIT	PAPER NUMBER
			1725	
			DATE MAILED: 12/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Amplication No.	Applicant(a)			
	Application No.	Applicant(s)			
Office Action Commence	10/774,129	LEACH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Clifford C. Shaw	1725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 17 May 2004 is/are: a)☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 0712.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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Detailed Action

1.) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.) Claims 1-7 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stiebel (5.254.828) taken with Kanjo (6,232,572). The patent to Stiebel (5.254.828) discloses an apparatus and method with features claimed, including: electrodes 26, 28; force sensor 40; controller 66, 52; power source 56; wherein the power source is controlled to stop providing power when the sensors detect that the weld nugget has become plastic in the manner claimed. The claims differ from Stiebel (5.254.828) in calling for an electric servo actuator. This difference does not patentably distinguish over the prior art. At the time applicant's invention was made, it would have been obvious to have used any well known force application means in the system of Stiebel (5.254.828) in lieu of the cylinder system 34 explicitly claimed. In particular, it would have been obvious to have used an electric servo actuator as claimed, the motivation being the teachings of Kanjo (6,232,572) that such is advantageous for providing electrode clamping force in a spot welding operation (see figure 1, element 34 and column 7, lines 14-25 in Kanjo (6,232,572)).

3.) Claims 8-12, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stiebel (5.254.828) taken with Kanjo (6,232,572) as applied to claims 1-7 and 13-15 above, and further in view of Cox et al. (2,472,368). The only aspect of the claims to which the rejection above does not apply is the provision for a position sensor or for sensing position. This difference does not patentably distinguish over the prior art. At the time applicant's invention was made, it would have been obvious to have used any type of sensor to sense workpiece deformation in Stiebel (5.254.828) in lieu of the force sensors explicitly claimed. In particular, it would have been obvious to have used a position sensor as claimed, the motivation being the teachings of Cox et al. (2,472,368) that such is advantageous for sensing workpiece deformation during a spot welding process (see figure 1, element 38 and the discussion at column 5, lines 14-40 in Cox et al. (2,472,368)).

Any inquiry concerning this communication should be directed to Clifford C Shaw at telephone number 571-272-1182. The examiner can normally be reached on Monday through Friday of the first week of the pay period and on Tuesday through Friday of the second week of the pay period.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Thomas G. Dunn, can be reached at 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Clifford C Shaw Primary Examiner Art Unit 1725

December 1, 2005